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IN THE CLAIMS

Please cancel claim 1.

Please add new claims 18 and 19.

Please re-write claims 2-4 and 6 as shown below.

- 1. (Cancelled)
- 2. (Currently Amended) The satellite signal receiver of claim 1, wherein the sampling circuit comprises A satellite signal receiver, comprising:
 - a front end for receiving a satellite signal;
- a sampling circuit for digitizing said satellite signal, said digitized signal having either a first sample spacing or a second sample spacing;
- a mode selection processor for selecting either said first sample spacing or said second sample spacing; and
- a processor for performing at least a subset of a convolution between a pseudorandom reference code and said digitized signal:

wherein said sampling circuit comprises:

- an analog to digital converter for sampling said satellite signal; and
- a subsampling circuit for subsampling said sampled satellite signal to define said digitized signal having either said first sample spacing or said second sample spacing.
- (Currently Amended) The satellite signal receiver of claim [[1]] 2, further comprising:
 a computer for computing a position location using results of said convolution.
- 4. (Currently Amended) The satellite signal receiver of claim 1, further comprising ≜ satellite signal receiver, comprising:
 - a front end for receiving a satellite signal;
- a sampling circuit for digitizing said satellite signal, said digitized signal having either a first sample spacing or a second sample spacing;

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- a mode selection processor for selecting either said first sample spacing or said second sample spacing;
- a processor for performing at least a subset of a convolution between a pseudorandom reference code and said digitized signal; and
- a computer for generating a region of interest in said digitized signal using results of said convolution in response to selection of said first sample spacing.
- 5. (Original) The satellite signal receiver of claim 4, wherein said processor is configured to perform at least a subset of a second convolution within said region of interest in response to selection of said second sample spacing.
- (Currently Amended) The satellite signal receiver of claim [[1]] 4, further comprising:
- a plurality of processing channels, where each channel produces at least a subset of a convolution for a different satellite signal.
- 7. (Original) A receiver of global positioning system (GPS) signals, comprising:
- an RF/IF converter for filtering and frequency translating a received GPS signal to form an IF signal;
 - an analog to digital converter for digitizing said IF signal;
- a tuner for removing Doppler shift from said digitized signal and producing an inphase (i) and a quadrature (Q) signal;
- a decimation circuit for subsampling said I and Q signals, said subsampled I and Q signals having either a first sample spacing or a second sample spacing;
- a mode selection processor for selecting either said first sample spacing or said second sample spacing; and
- a processor for performing at least a subset of a convolution between a C/A reference code and said subsampled I and Q signals.
- 8. (Original) The receiver of claim 7, wherein said processor comprises:
- a code generator for producing a C/A reference code comprising a code lookup table and a first and a second code extender.

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- 9. (Original) The receiver of claim 7, wherein said processor comprises:
 - a first shift register for storing a segment of said subsampled I signal; and
 - a second shift register for storing a segment of said subsampled Q signal.
- 10. (Original) The receiver of claim 7, further comprising:
- a plurality of processing channels, where each channel produces at least a subset of a convolution for a different GPS signal.
- (Original) The receiver of claim 7, further comprising:
 a computer for computing a position location using said convolution.
- 12. (Original) The receiver of claim 7, further comprising:
- a second processor for generating a region of interest in said subsampled I and Q signals using said convolution in response to selection of said first sample spacing.
- 13. (Original) The receiver of claim 12, wherein said processor is configured to perform at least a subset of a second convolution within said region of interest in response to selection of said second sample spacing.
- 14. (Original) The receiver of clalm 7, further comprising: a processing circuit for integrating results of said convolution.
- 15. (Original) A receiver of global positioning system (GPS) signals, comprising:

means for filtering and frequency translating a received GPS signal to form an IF signal;

means for digitizing said IF signal;

means for removing Doppler shift from said digitized signal and producing an inphase (I) and a quadrature (Q) signal;

means for subsampling said I and Q signals, said subsampled I and Q signals having either a first sample spacing or a second sample spacing;

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means for selecting either said first sample spacing or said second sample spacing; and

means for performing at least a subset of a convolution between a C/A reference code and said subsampled I and Q signals.

16. (Original) The receiver of claim 15, further comprising:

means for generating a region of interest in said subsampled I and Q signals using said convolution in response to selection of said first sample spacing.

- 17. (Original) The receiver of claim 15, wherein said means for performing is configured to perform at least a subset of a second convolution within said region of interest in response to selection of said second sample spacing.
- 18. (New) The satellite signal receiver of claim 4, wherein the computer is further configured to compute a position location using results of said convolution.
- 19. (New) The satellite signal receiver of claim 2, further comprising:

a plurality of processing channels, where each channel produces at least a subset of a convolution for a different satellite signal.